

California **Water Plan** Highlights

INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

California Water Plan Update 2009 & Update 2013

**Water Technology
Caucus
October 14, 2011**

Update 2009 – State's Blueprint Integrated Water Management & Sustainability



VISION

- Public Health, Safety, Quality of Life
- Vitality, Productivity, Economic Growth
- Healthy Ecosystem, Cultural Heritage

Foundational Actions for **SUSTAINABLE WATER USES**

- Use Water Efficiently
- Protect Water Quality
- Expand Environmental Stewardship

Initiatives for **RELIABLE WATER SUPPLIES**

- Expand Integrated Regional Water Management
- Improve Statewide Water and Flood Management Systems

3 I's - Invest in Innovation & Infrastructure

California State Government in partnership with others should invest in water innovation & infrastructure to support integrated water management and sustainable outcomes

➤ Innovation

- Governance improvements
- Planning & public process improvements
- Information technology (data & tools)
- Water technology / R&D

➤ Infrastructure

- Regional projects
- Inter-regional projects
- Statewide systems

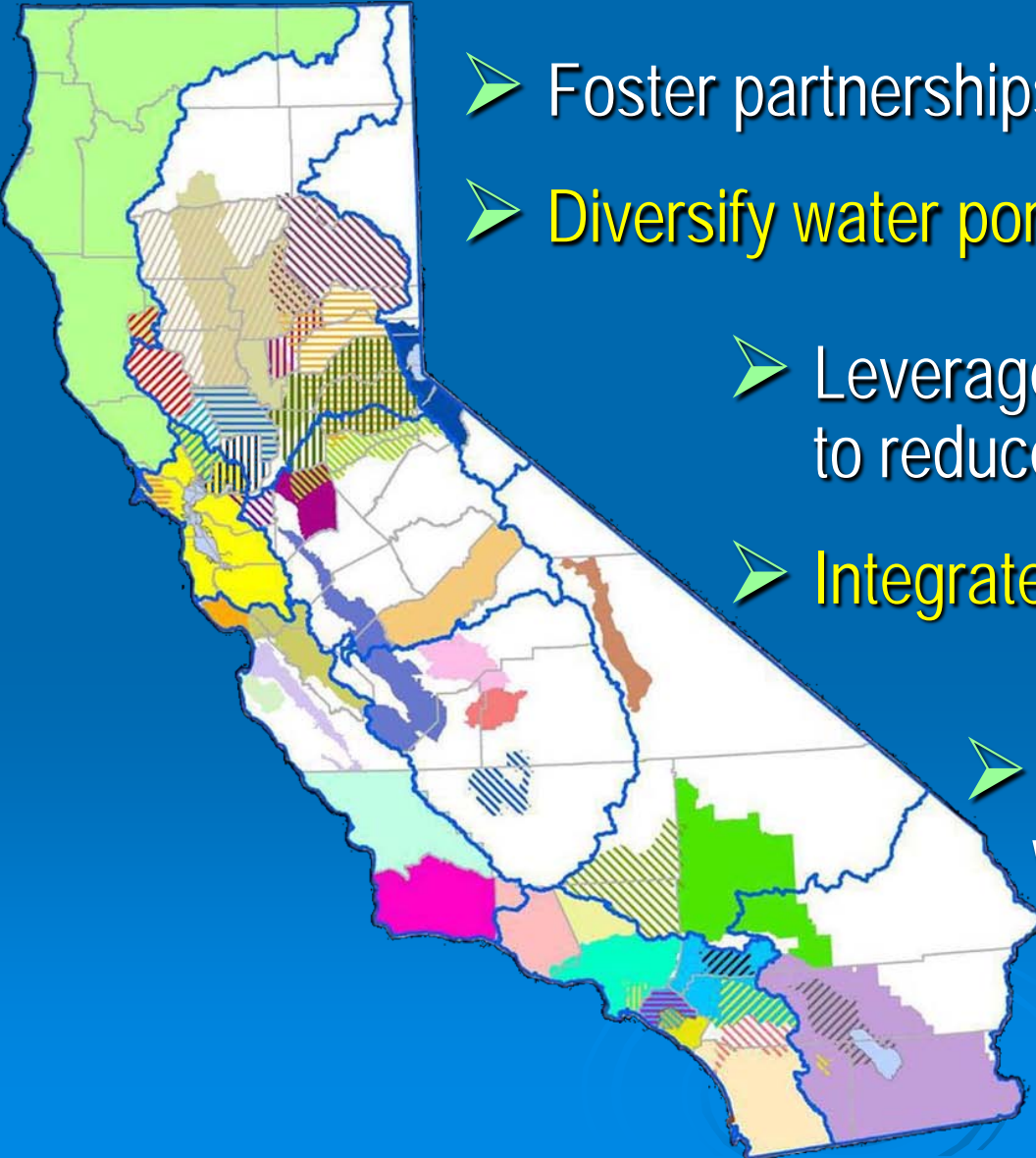
➤ State Investments - Finance Plan

- Stable funding with focus on innovation investments
- Seed money to incentivize infrastructure improvements



Integrated Regional Water Management

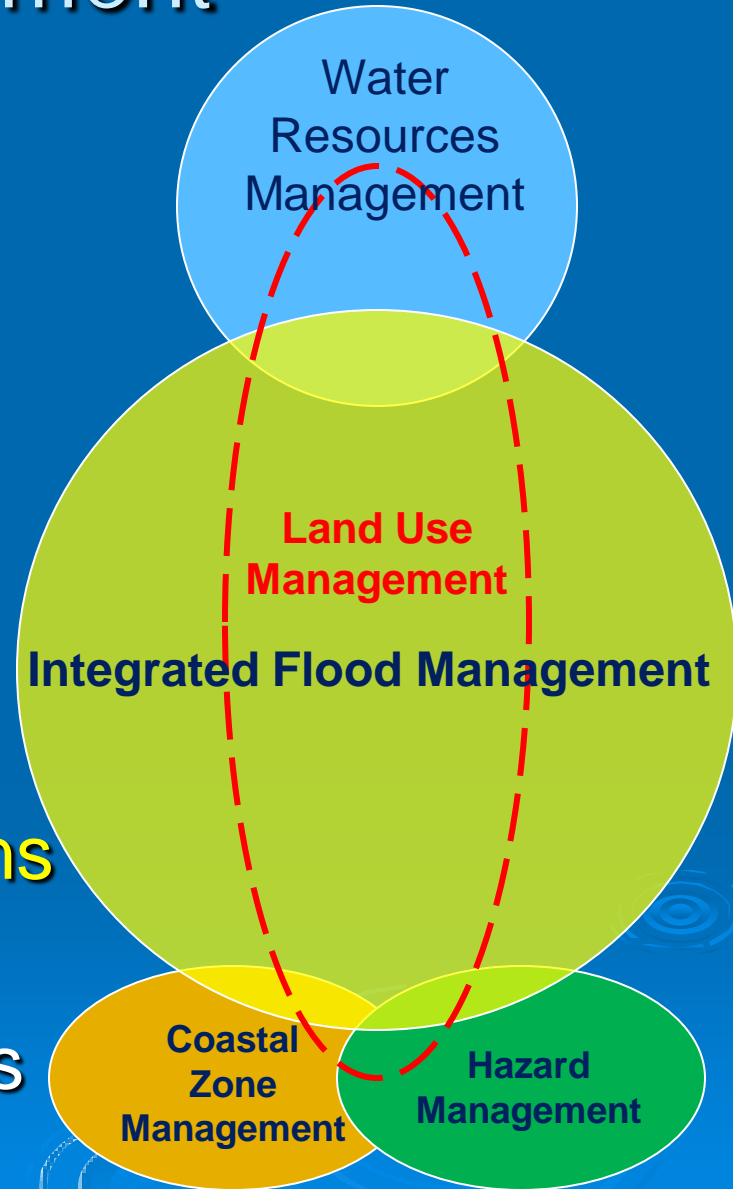
48 Regional Water Mgmt Groups



- Foster partnerships & promote regional solutions
- Diversify water portfolios & integrate supplies
- Leverage economies of scale to reduce costs
- Integrate data, tools & resources
- Invest in multi-benefit projects with sustainable outcomes

Integrated Flood Management

- Comprehensive approach to flood management
- Considers land & water resources at watershed scale
- Minimizes loss of life and property damage from flooding
- Maximizes benefits of floodplains
- Recognizes benefits to ecosystems from periodic floods



Improve Coordination Land Use Planning & Water Management



- Land use planning controlled locally
- Water management decentralized -- over 2,300 counties, cities, public agencies, and private water companies
- Use IRWM to coordinate land use planning with water supply, quality, flood management, and climate adaptation
- State Government provides technical assistance and financial incentives
- Improve coordination among State agencies and with IRWM Partnerships

Strategic Plan Elements

double foldout 12A – 12D

➤ Desired future for CA water & Purpose of Water Plan

Vision & Mission

➤ Desired outcomes for the 2050 planning horizon

7 Goals

➤ Core values & philosophies

10 Guiding Principles

➤ Statements of intent / Focus on what & when

13 Objectives & 115+ Actions

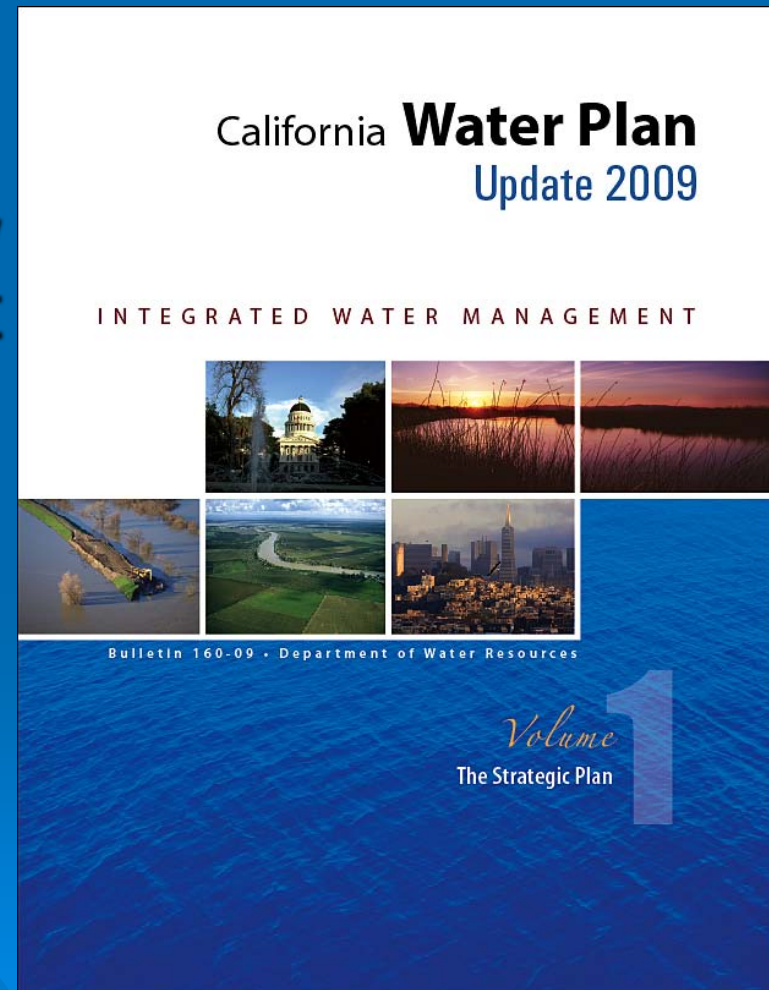
➤ Removing impediments & leveraging opportunities

9 Recommendations

California Water Plan Update 2009

Objective 10 – Improve Data & Analysis

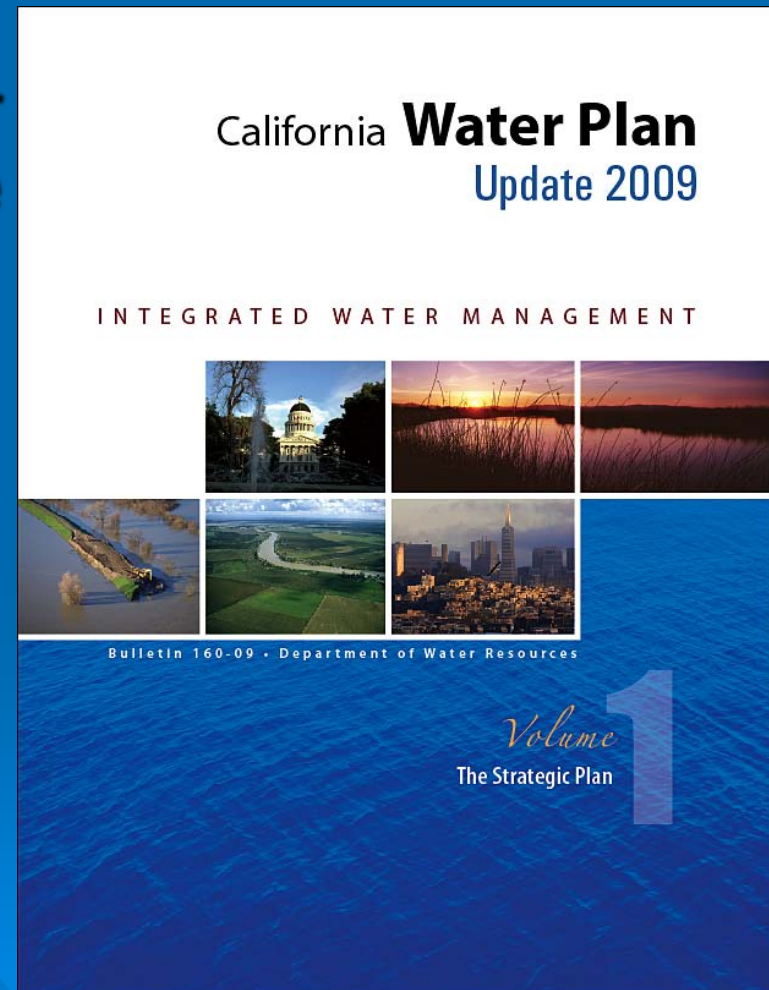
- Improve and expand monitoring, data management, and analysis to support decision-making, especially in light of uncertainties, that support Integrated Regional Water Management and flood & water resources management systems
- 12 Related Actions
 - Improve water management info
 - Improve data integration



California Water Plan Update 2009

Objective 11 – Invest in New Water Technology

- Identify and fund applied research and pilot studies on emerging water technology to make them attainable and more cost effective
- Work with CCST, academic institutions & private partners
- 3 Related Actions
 - Identify, prioritize, and begin funding applied research projects
 - Invest in pilot projects
 - Continue CEC PIER Program to reduce energy intensity & demand



27 Resource Management Strategies

A Range of Choices

Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers

- Conveyance – Delta
- Conveyance – Regional / Local
- System Reoperation
- Water Transfers

Increase Water Supply

- Conjunctive Management & Groundwater Storage
- Desalination – Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage – CALFED
- Surface Storage – Regional / Local

Improve Flood Management

- Flood Risk Management

Improve Water Quality

- Drinking Water Treatment & Distribution
- Groundwater / Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Salt & Salinity Management
- Urban Runoff Management

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives
(Loans, Grants & Water Pricing)
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Areas Protection
- Water-Dependent Recreation
- Watershed Management

Other -- Crop idling, dew vaporization, fog collection, irrigated land retirement, rainfed agriculture, waterbag transport



Working on Update 2013



Update 2013 Content Enhancements

➤ Integrated Water Management

- Expand on water quality
- Continue integrated flood mgmt
- Expand on groundwater
- Add near coastal resources

➤ Regional Planning

- Expand on land use & water mgmt nexus
- Incorporate UWMP content
- Expand economic & financial planning

➤ Data, Metrics & Analysis

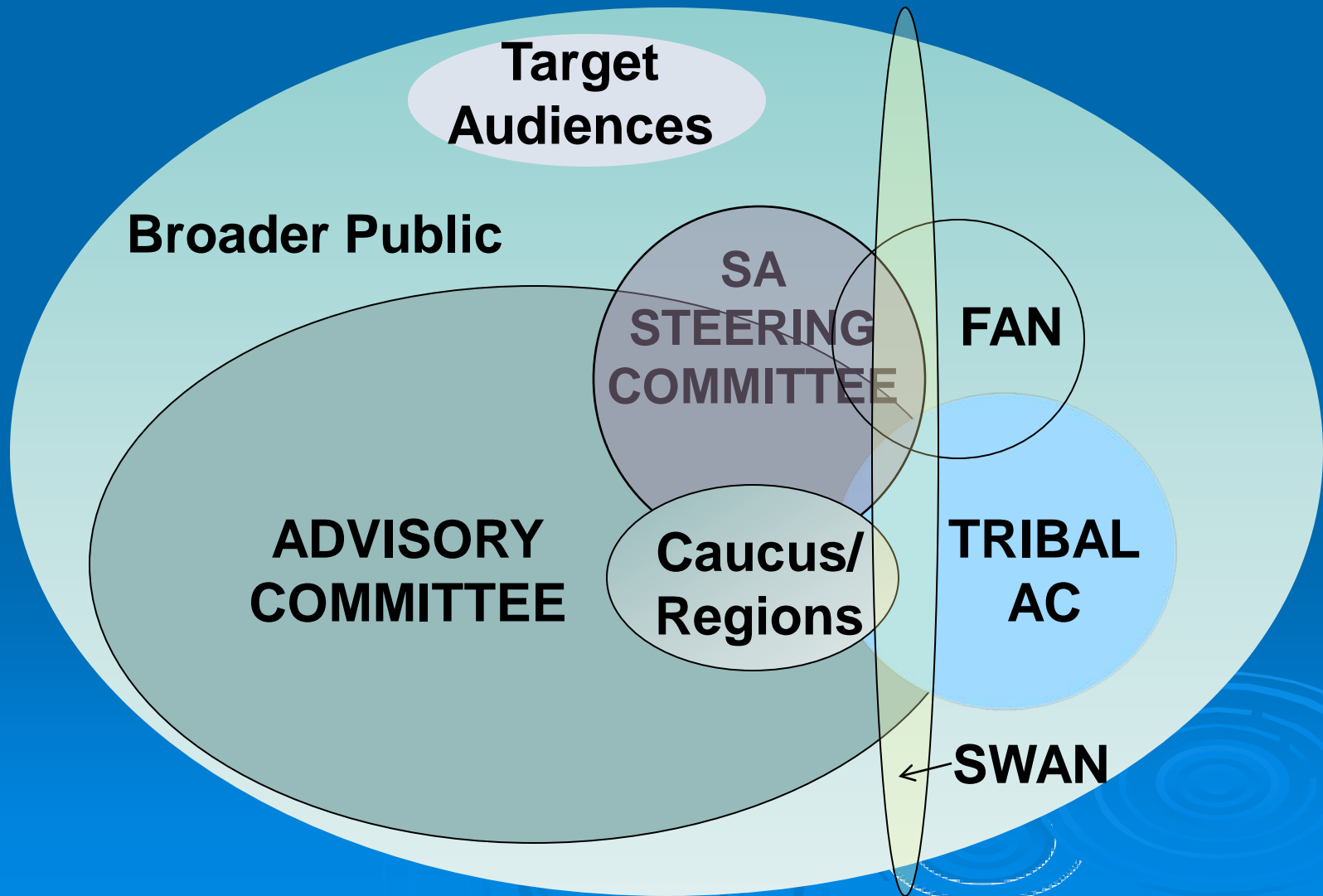
- Improve data mgmt & sharing
- Enhance inter-disciplinary technical analyses
- Develop metrics & sustainability indicators
- Develop CA Water Mgmt Progress Report

➤ Adaptive Management

- Revisit environmental water concept
- Use Living Document approach
- Use multiple & shorter planning horizons
- Identify outdated water codes & laws



Update 2013 Collaboration Venues



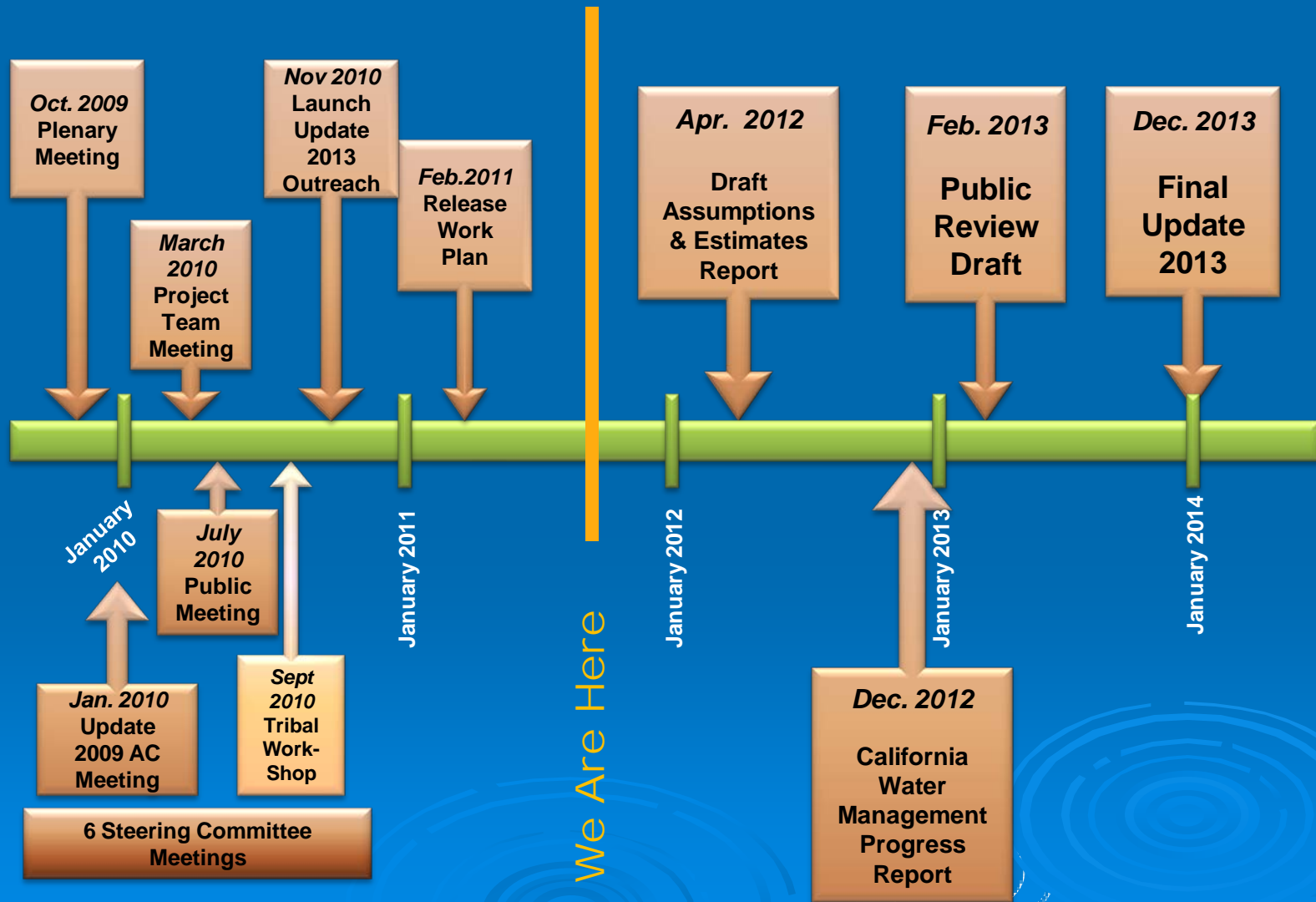
California Water Plan Update 2013

Topic Caucuses & Focus Areas

- Update 2013 Finance Plan
- Groundwater
- Water Quality
- Integrated Flood Management
- New Water Technology / R&D
- Sustainability Indicators
- Scenarios – Planning for Future Uncertainty



Update 2013 Schedule



Ways to Access Water Plan Information

- Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov

California Water Plan eNews
Special Edition
March 30, 2010

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

California Water Plan Update 2009 released

Today, the California Department of Water Resources released the California Water Plan Update 2009 – a product of four years of collaboration. It's a water plan for the entire state and is available online. Integrated water management and sustainability is the focus of the plan. By throughout Update 2009, it gives all Californians a new direction for water decisions about such challenges as threatened ecosystems, the uncertainties of climate change and a rising sea level, and population growth. It spells out the urgency that demand

- [Read Press Release](#)
- [Read Special File](#)

The Water Plan came from a steering committee representing 21 State agencies, a 45-member public advisory committee, nearly 40 regional workshops held around the state, about 150 meetings with more than 26,500 participants of conversations about our water. Update 2009 is the State's blueprint for sustainability and integrated water management and marks a significant new chapter in the way California manages its water resources.

Secretary's Message
Secretary of California Natural Resources Agency Letter Snider delivers his message about Update 2009.

Highlights
The Highlights section of Update 2009 provides an easy-to-read overview of the document.

Strategic Plan, Volume 1
Update 2009 includes a strategic plan with a vision, mission, goals, recommendations, and implementation plan.

Resource Management Strategies, Volume 2
Think of these strategies as tools in a tool kit. There are nearly 30 strategies for addressing integrated water management.

Director's Message
Director of California Department of Water Resources Mark Conitt reflects the forward to Update 2009.

Click on links below for more information.

[Upcoming Meetings](#) [Water Plan Web site](#)



- Subscribe to *Water Plan eNews*
a weekly electronic newsletter
www.waterplan.water.ca.gov/enews

California Home Governor Home Amber Alert Tuesday, April 27, 2010

Welcome to **California**

DEPARTMENT OF WATER RESOURCES
PLANNING AND LOCAL ASSISTANCE

California Water Plan

Home > Update 2009 - Integrated Water Management
Bulletin 160-09 Department of Water Resources

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Secretary's Message

"The strategies outlined in these pages provide the means to manage resources comprehensively, from snowmelt to estuary, from field to tap, and all of the uses within the watershed"

[Video of former Director Snider giving his address at the Preliminary meeting on](#)